

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097233.D
 Acq On : 1 Aug 2017 15:59
 Operator : SJ/JU
 Sample : I4482-01DL 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Manual Integrations
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Quant Time: Aug 01 16:48:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 01 14:57:42 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	111101	20.00	ng	0.00
21) Naphthalene-d8	7.75	136	408810	20.00	ng	0.00
38) Acenaphthene-d10	9.49	164	160340	20.00	ng	0.00
63) Phenanthrene-d10	10.97	188	230592	20.00	ng	0.00
75) Chrysene-d12	13.59	240	220841	20.00	ng	0.00
86) Perylene-d12	14.94	264	187626	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	151393	20.54	ng	0.00
7) Phenol-d6	6.14	99	199987	23.77	ng	-0.01
23) Nitrobenzene-d5	7.03	82	94017	13.49	ng	-0.02
41) 2,4,6-Tribromophenol	10.28	330	19298	15.23	ng	-0.01
44) 2-Fluorobiphenyl	8.82	172	145116	15.36	ng	-0.01
78) Terphenyl-d14	12.55	244	103600	9.56	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.77	128	470075	24.393	ng	99
37) 2-Methylnaphthalene	8.46	142	61416	5.034	ng	96
49) Dimethylphthalate	9.23	163	33239	2.730	ng	100
51) Acenaphthene	9.52	154	68201	7.485	ng	97
54) Dibenzofuran	9.70	168	99478	8.196	ng	96
57) Fluorene	10.04	166	101896	11.170	ng	98
70) Phenanthrene	10.99	178	538036	43.547	ng	100
71) Anthracene	11.05	178	163327	12.907	ng	96
72) Carbazole	11.20	167	89952	7.228	ng	97
74) Fluoranthene	12.17	202	546130	45.120	ng	98
77) Pyrene	12.40	202	433871	23.998	ng	99
80) Benzo(a)anthracene	13.58	228	227532	15.923	ng	99
82) Chrysene	13.62	228	186889	13.394	ng	96
85) Indeno(1,2,3-cd)pyrene	16.15	276	64486	5.390	ng	97
87) Benzo(b)fluoranthene	14.59	252	223227m	19.792	ng	
88) Benzo(k)fluoranthene	14.60	252	66227m	6.162	ng	
89) Benzo(a)pyrene	14.89	252	146523	14.195	ng	96
90) Dibenzo(a,h)anthracene	16.14	278	17504m	2.068	ng	
91) Benzo(a,h,i)perylene	16.51	276	58887	6.634	ng	# 93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

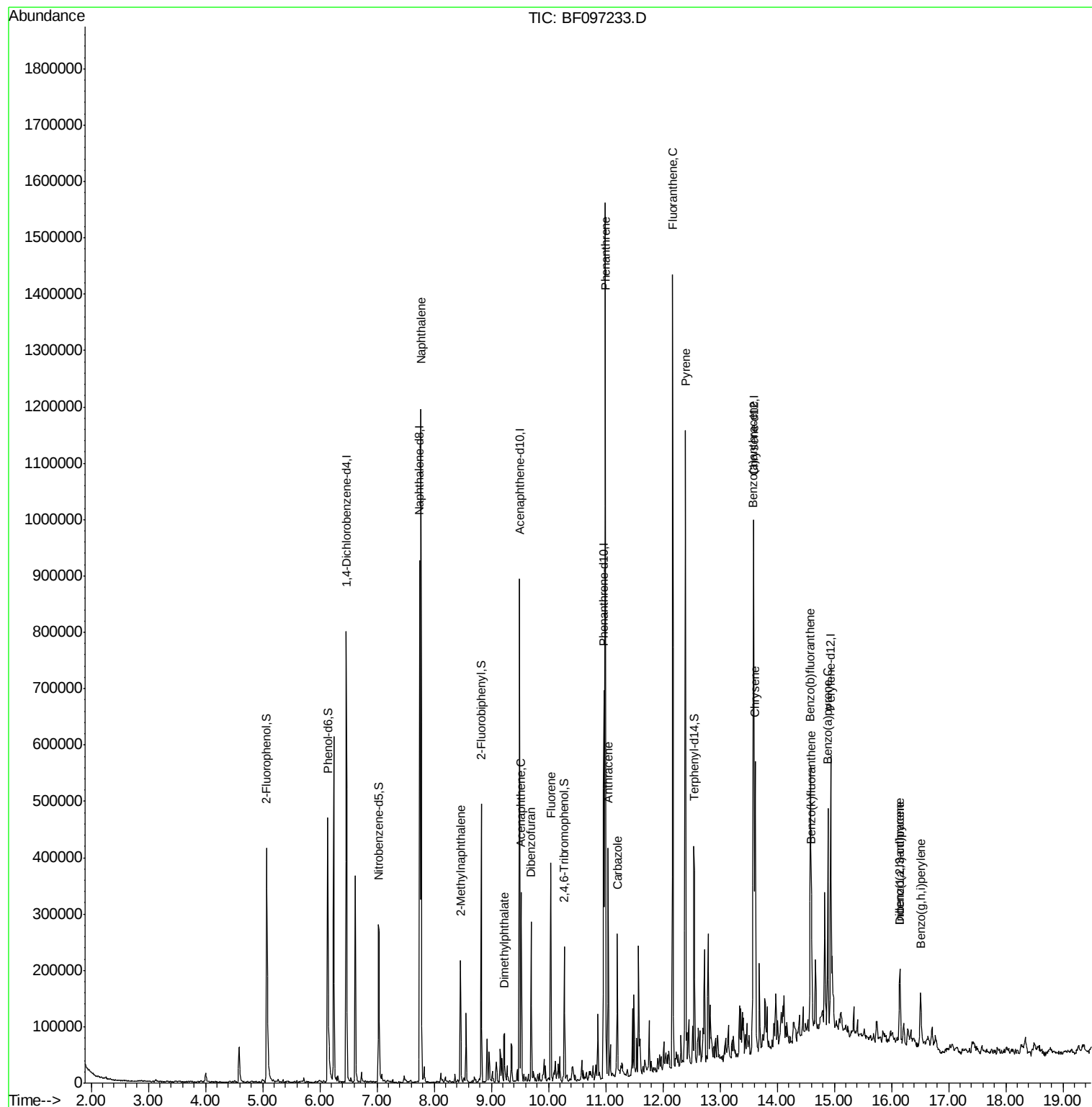
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
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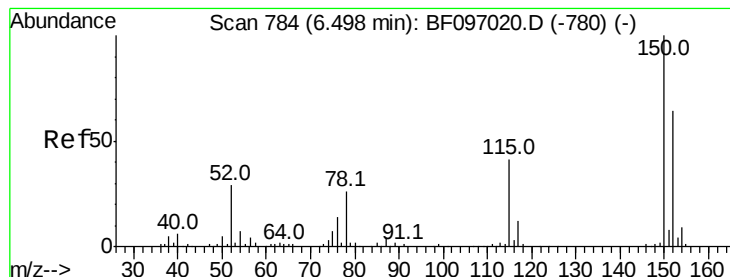
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#1

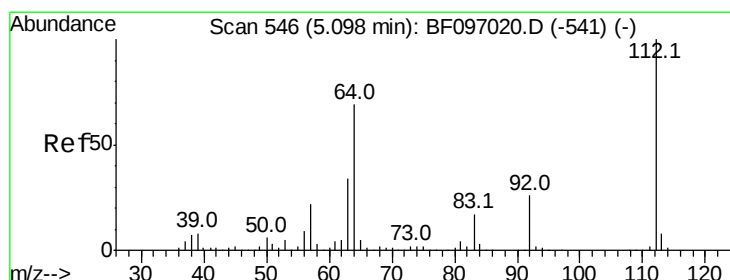
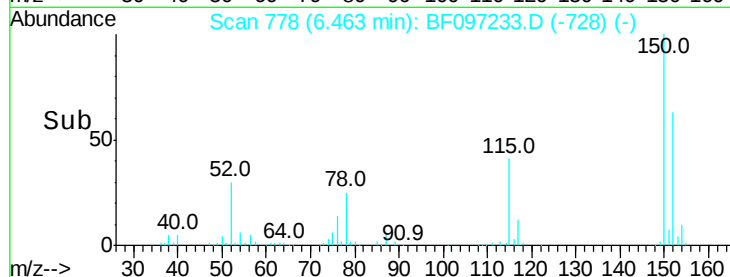
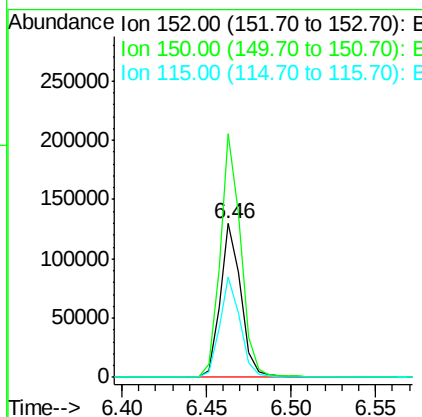
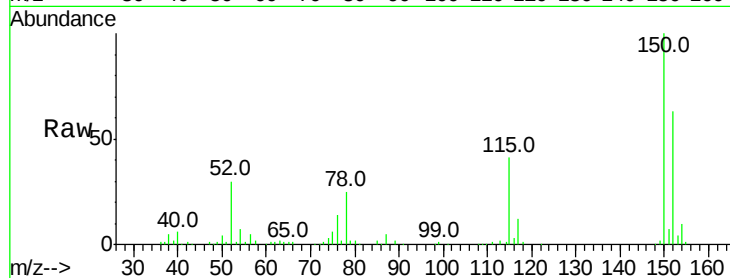
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.46 min Scan# 778
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	126.2	189.2
115	64.8	52.2	78.2

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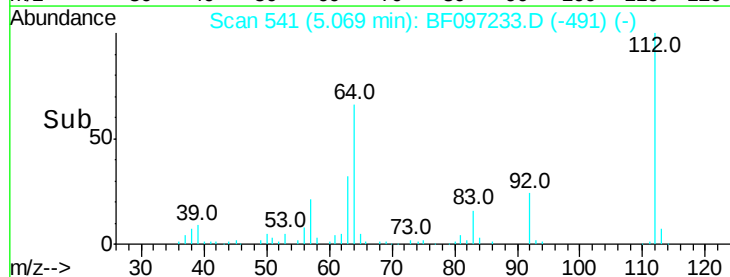
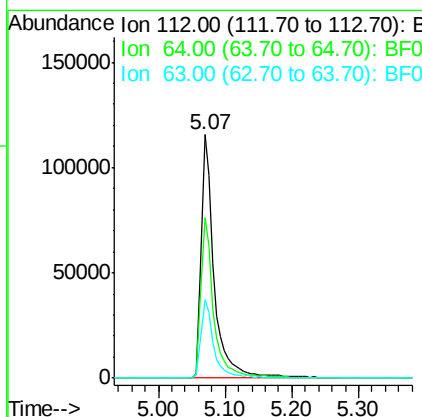
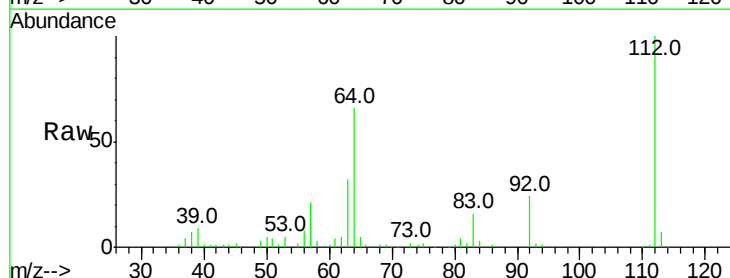
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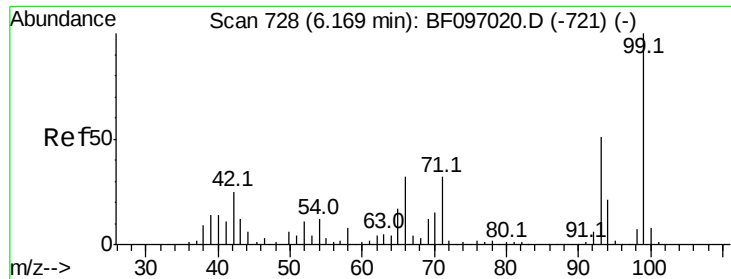


#5

2-Fluorophenol
 Concen: 20.542 ng
 RT: 5.07 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	46.0	69.0
63	32.5	23.4	35.0





#7

Phenol-d6

Concen: 23.769 ng

RT: 6.14 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

Instrument :

BNA_F

ClientSampleId :

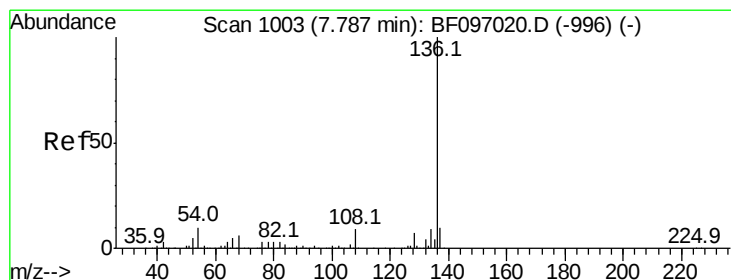
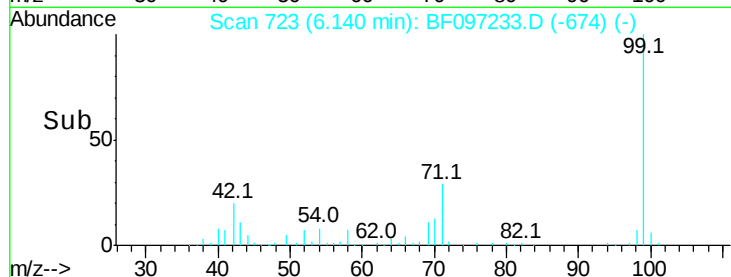
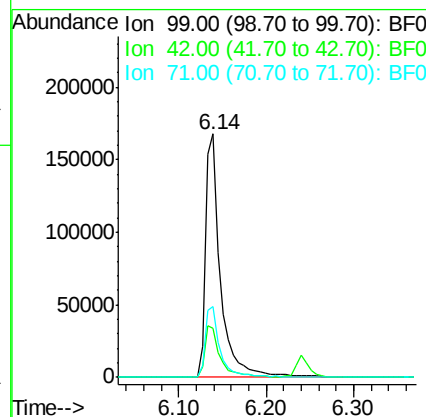
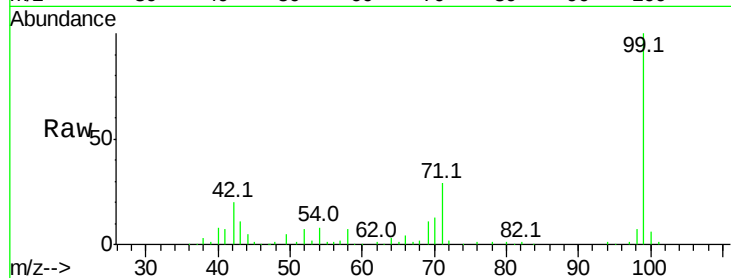
VNJ-227-230-235DL

Tot Ion:	99	Resp:	199987
Ion Ratio	Lower	Upper	
99	100		
42	20.2	13.5	20.3
71	29.0	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

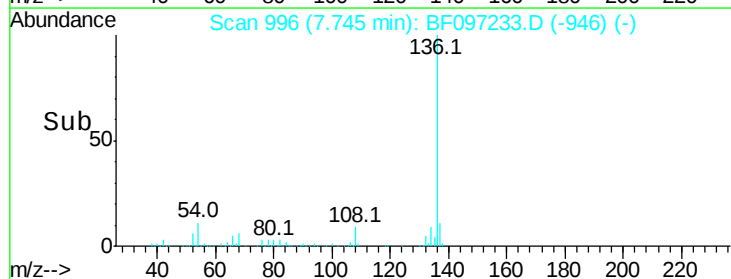
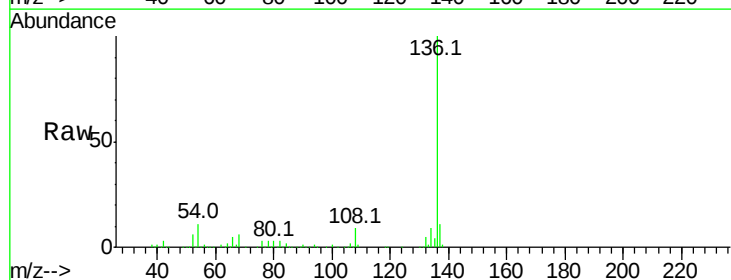
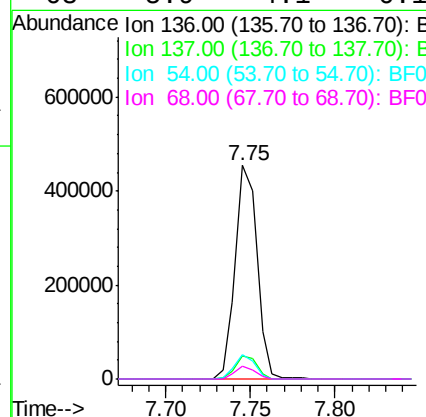
RT: 7.75 min Scan# 996

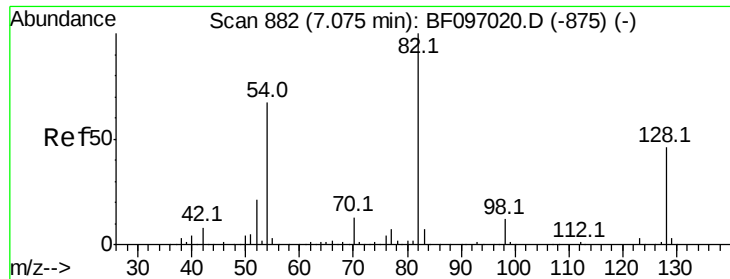
Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

Tgt Ion:	136	Resp:	408810
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	11.3	4.9	7.3#
68	5.9	4.1	6.1





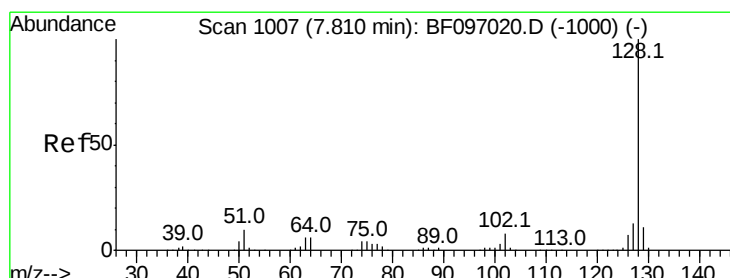
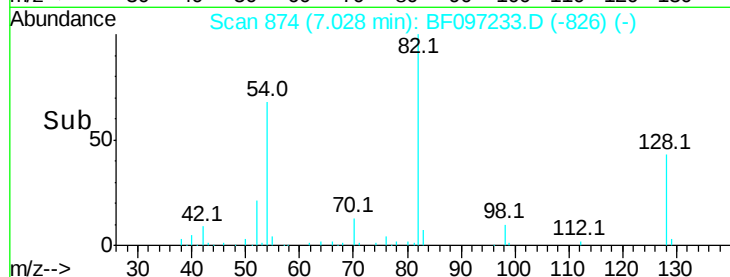
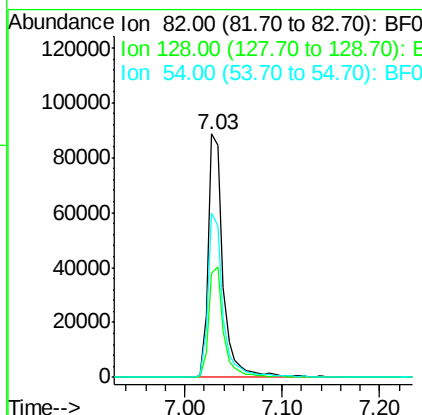
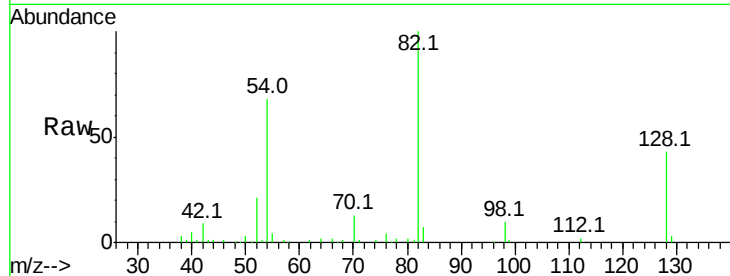
#23
 Nitrobenzene-d5
 Concen: 13.491 ng
 RT: 7.03 min Scan# 874
 Delta R.T. -0.02 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	67.6	42.2	63.2

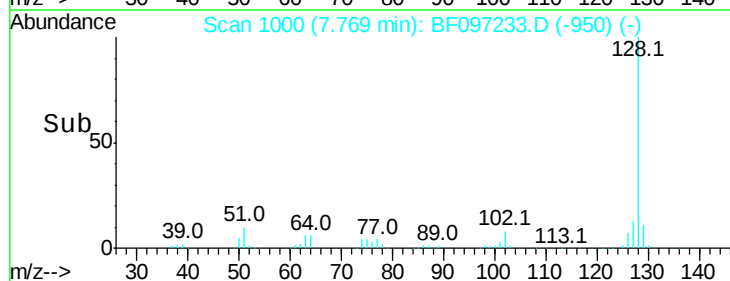
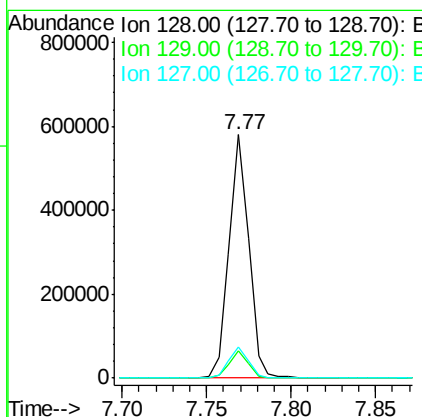
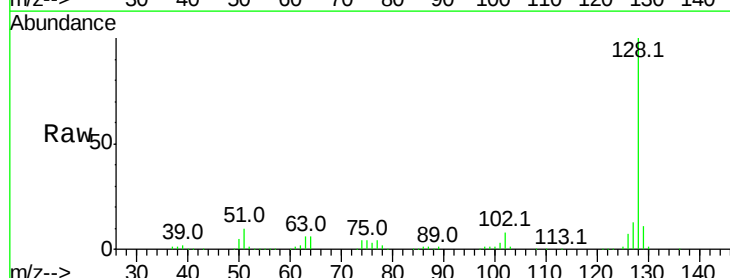
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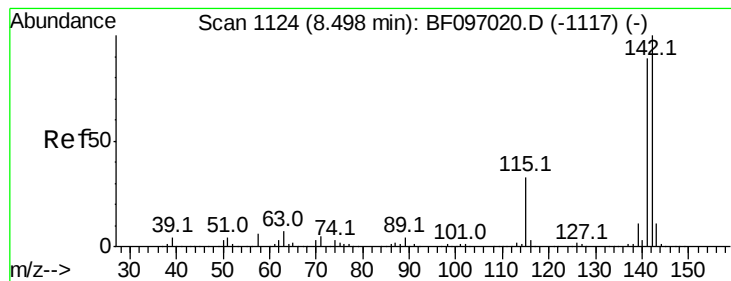
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#31
 Naphthalene
 Concen: 24.393 ng
 RT: 7.77 min Scan# 1000
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.0	10.8	16.2





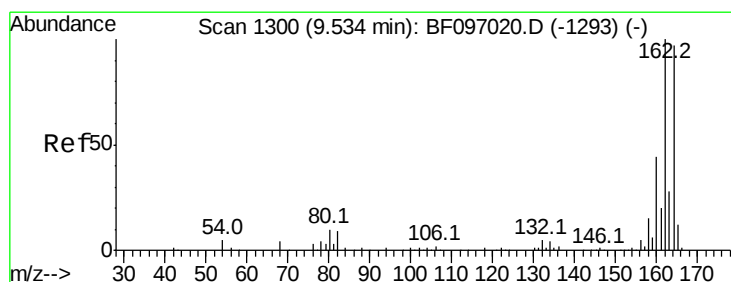
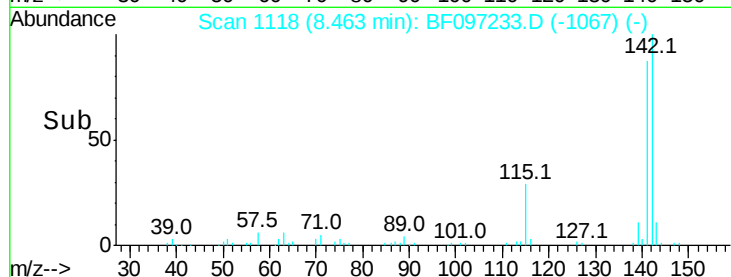
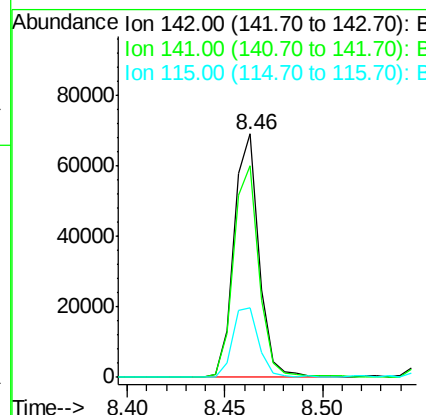
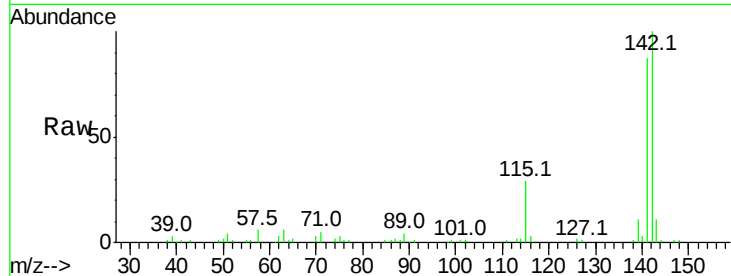
#37
 2-Methylnaphthalene
 Concen: 5.034 ng
 RT: 8.46 min Scan# 1118
 Delta R.T. 0.00 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.0	71.3	106.9
115	28.7	27.1	40.7

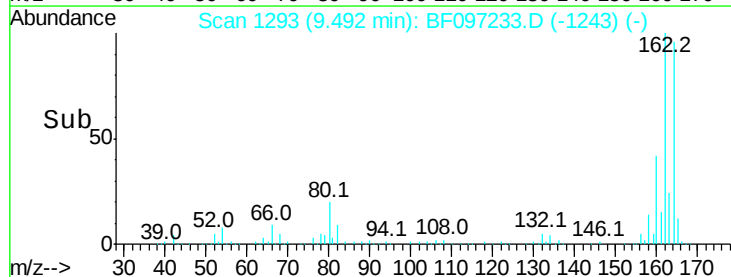
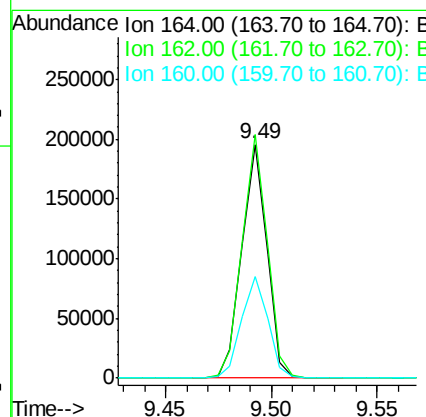
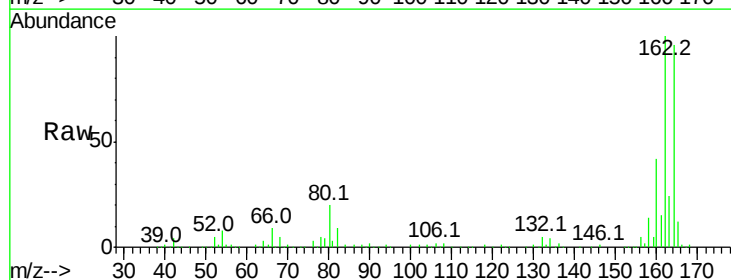
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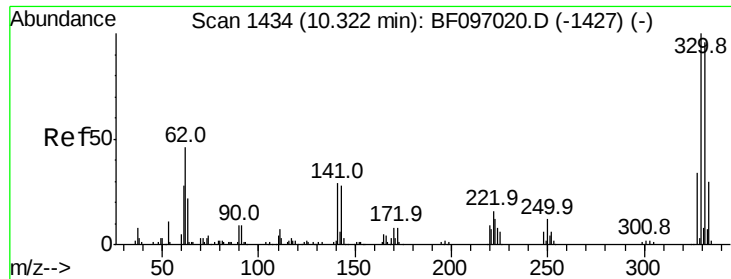
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.49 min Scan# 1293
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	82.6	123.8
160	43.5	36.2	54.2





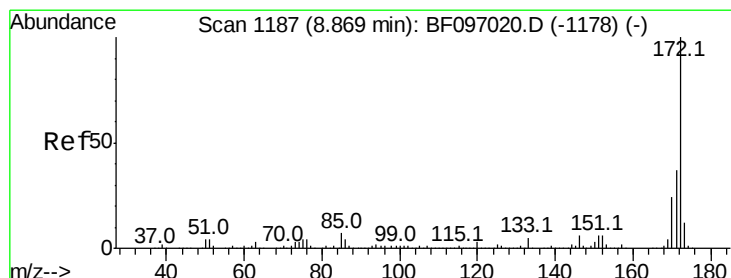
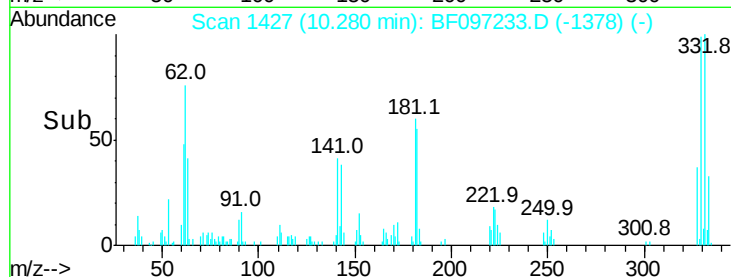
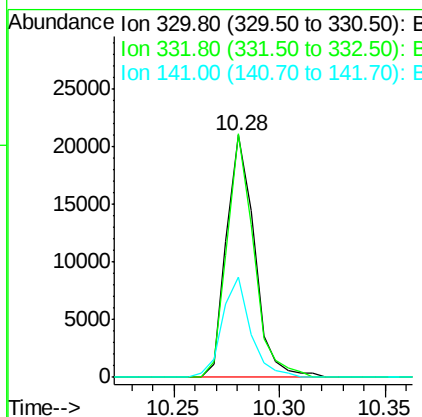
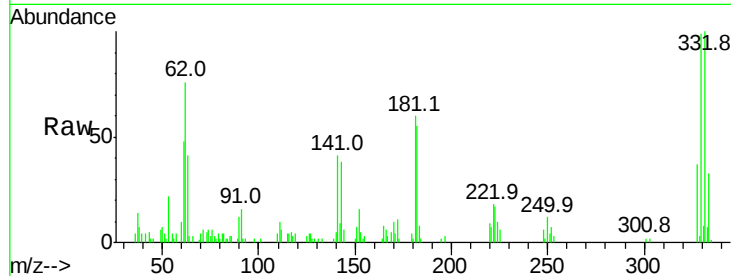
#41
 2,4,6-Tribromophenol
 Concen: 15.233 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.0	76.6	115.0	
141	42.1	31.4	47.2	

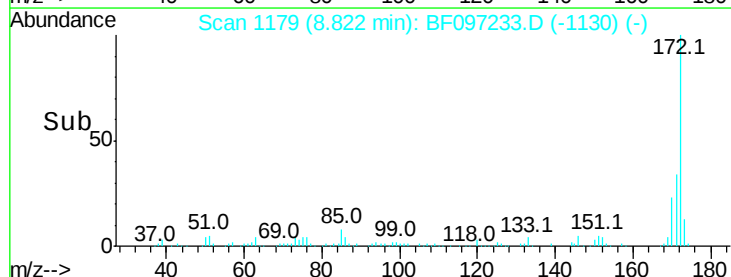
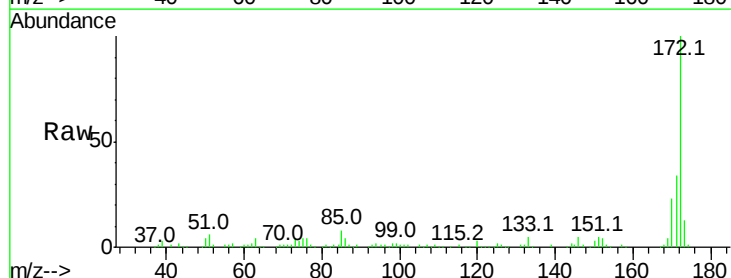
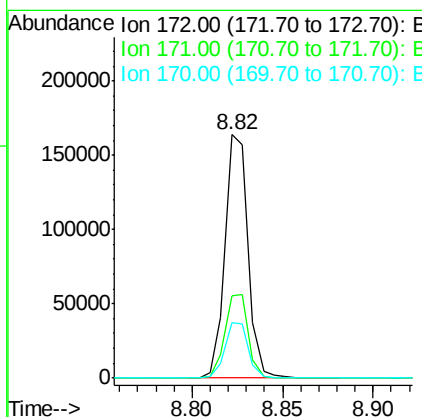
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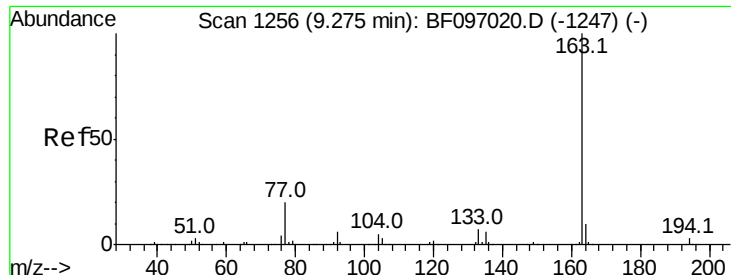
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#44
 2-Fluorobiphenyl
 Concen: 15.360 ng
 RT: 8.82 min Scan# 1179
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.1	29.6	44.4	
170	22.6	19.8	29.8	





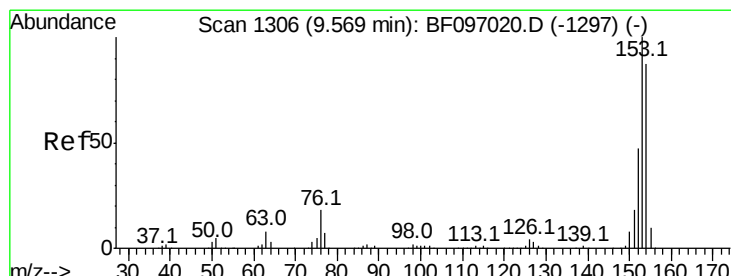
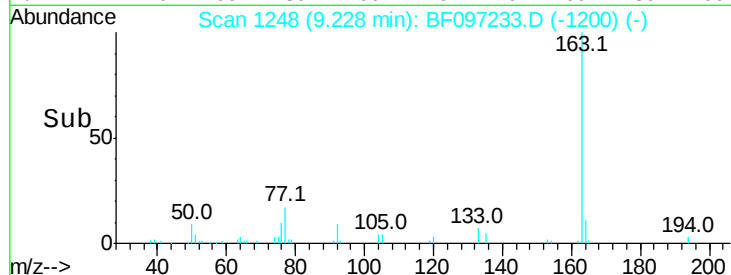
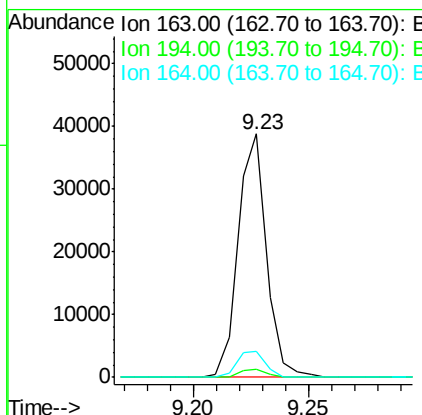
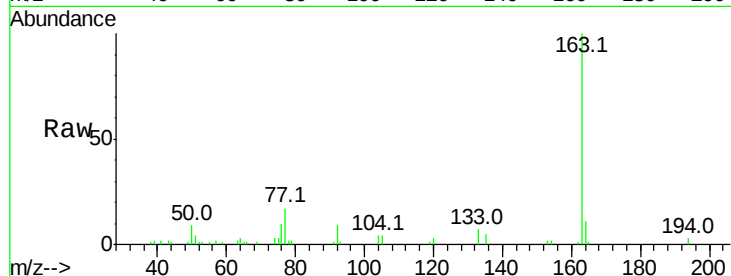
#49
 Dimethylphthalate
 Concen: 2.730 ng
 RT: 9.23 min Scan# 1248
 Delta R.T. -0.02 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion:	163	Resp:	33239
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.6	4.0
164	10.5	8.4	12.6

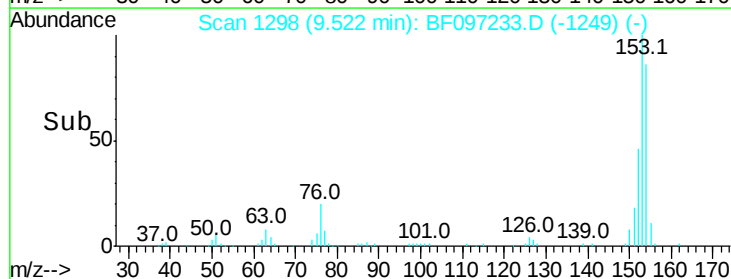
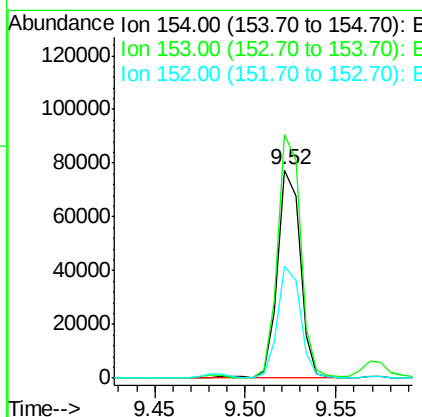
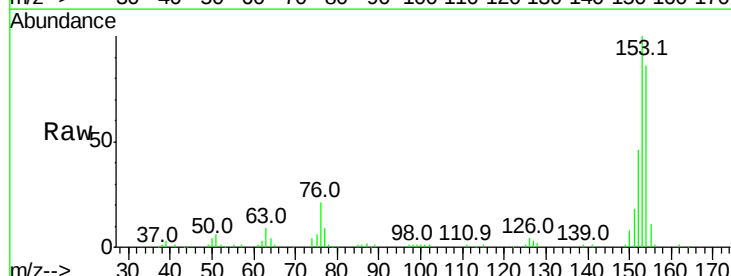
Manual Integrations
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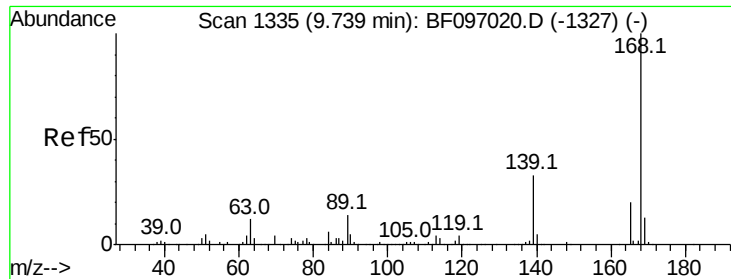
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#51
 Acenaphthene
 Concen: 7.485 ng
 RT: 9.52 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion:	154	Resp:	68201
Ion Ratio	Lower	Upper	
154	100		
153	116.9	90.5	135.7
152	53.7	43.6	65.4





#54

Dibenzenofuran

Concen: 8.196 ng

RT: 9.70 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

Instrument :

BNA_F

ClientSampleId :

VNJ-227-230-235DL

Tot Ion:168 Resp: 99478

Ion Ratio Lower Upper

168 100

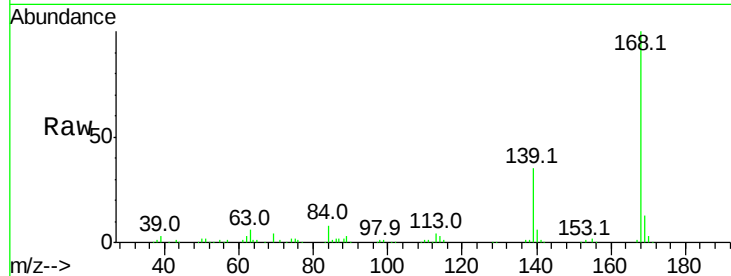
139 35.2 30.6 45.8

169 12.9 10.8 16.2

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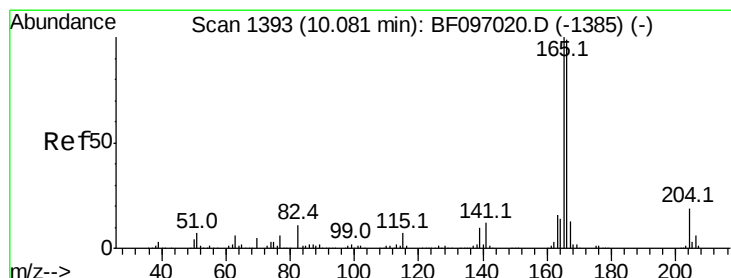
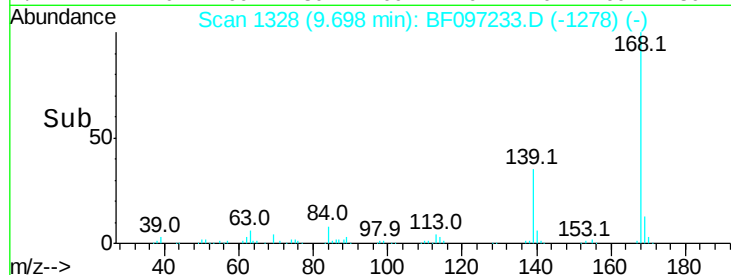
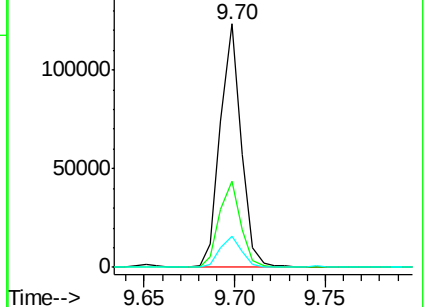
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 11.170 ng

RT: 10.04 min Scan# 1386

Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

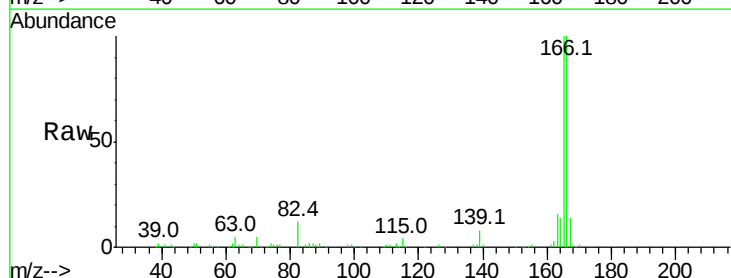
Tgt Ion:166 Resp: 101896

Ion Ratio Lower Upper

166 100

165 100.1 78.8 118.2

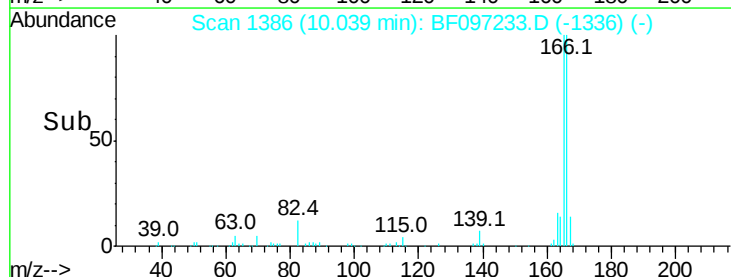
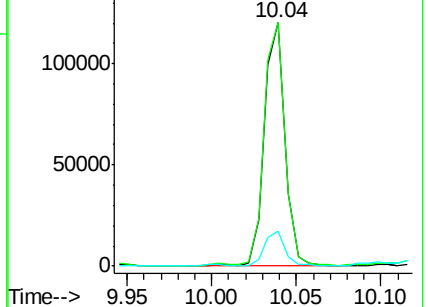
167 14.3 10.6 16.0

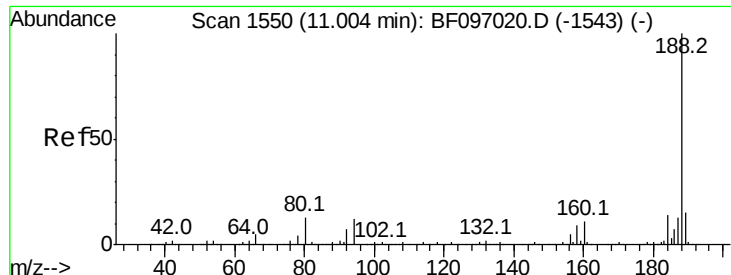


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





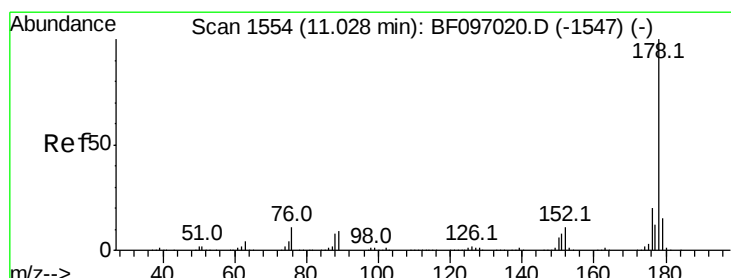
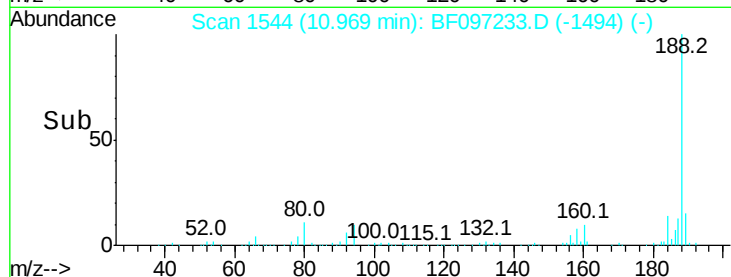
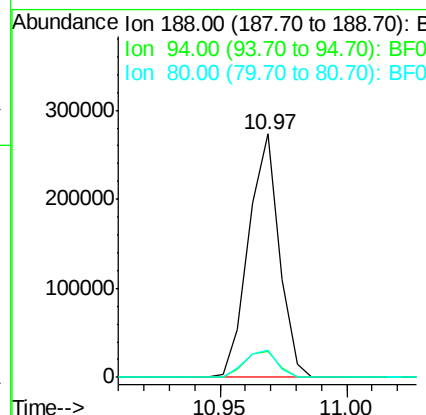
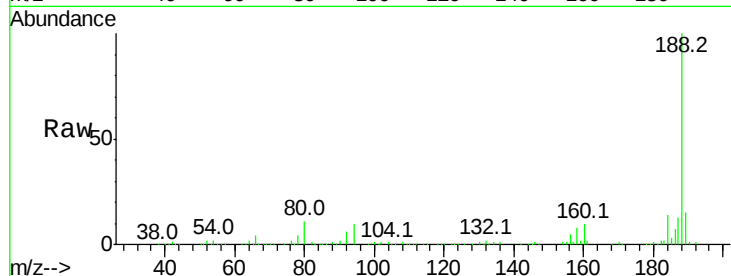
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.97 min Scan# 1544
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion:	188	Resp:	230592
Ion Ratio	Lower	Upper	
188	100		
94	10.5	9.4	14.2
80	11.2	10.2	15.2

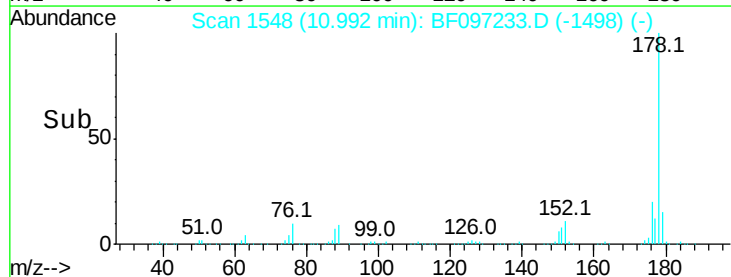
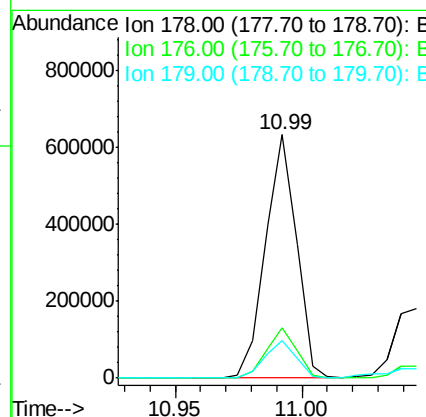
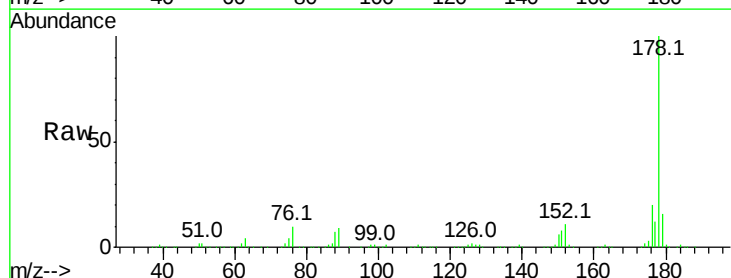
Manual Integrations
APPROVED

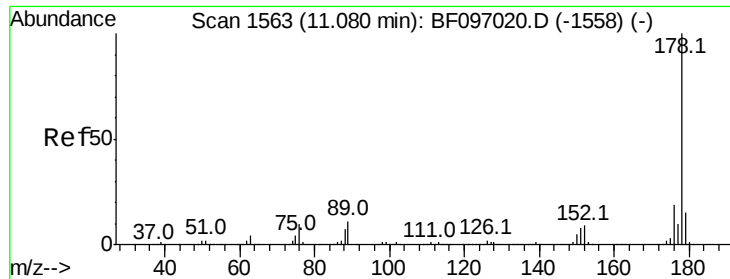
Sohil
8/2/2017 7:15:18 PM



#70
Phenanthrene
Concen: 43.547 ng
RT: 10.99 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion:	178	Resp:	538036
Ion Ratio	Lower	Upper	
178	100		
176	20.5	16.2	24.4
179	15.6	12.6	19.0





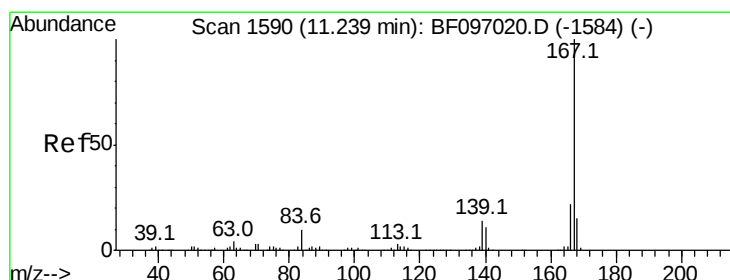
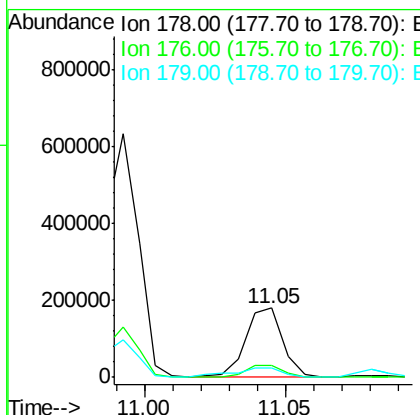
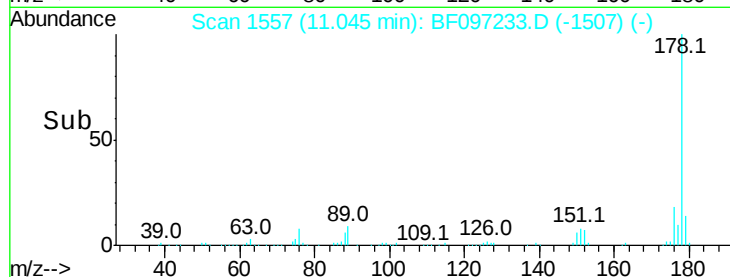
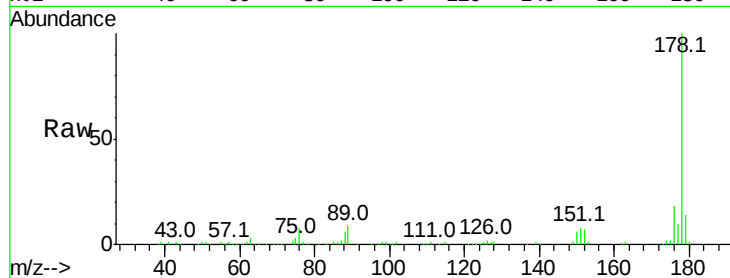
#71
 Anthracene
 Concen: 12.907 ng
 RT: 11.05 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion:	178	Resp:	163327
Ion Ratio	Lower	Upper	
178	100		
176	18.0	15.8	23.8
179	14.5	12.7	19.1

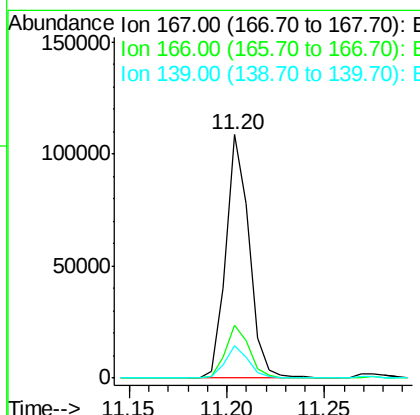
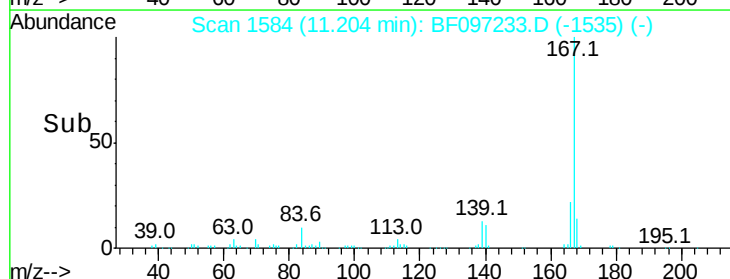
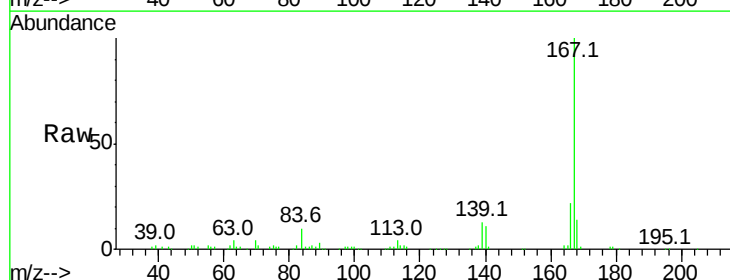
Manual Integrations
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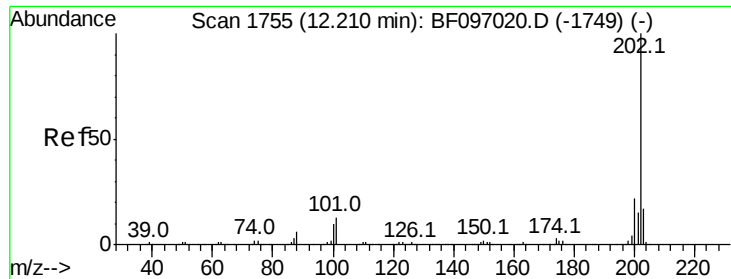
Sohil
 8/2/2017 7:15:18 PM



#72
 Carbazole
 Concen: 7.228 ng
 RT: 11.20 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Tgt Ion:	167	Resp:	89952
Ion Ratio	Lower	Upper	
167	100		
166	21.7	18.1	27.1
139	13.2	11.7	17.5





#74

Fluoranthene

Concen: 45.120 ng

RT: 12.17 min Scan# 1749

Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

Instrument :

BNA_F

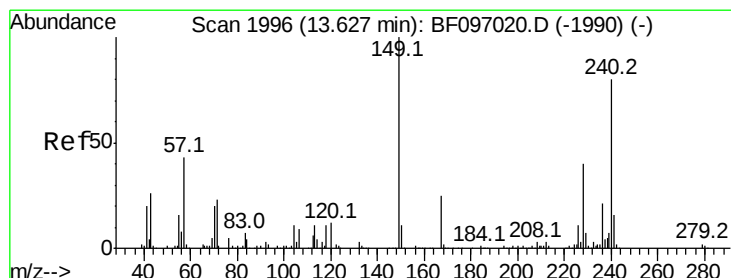
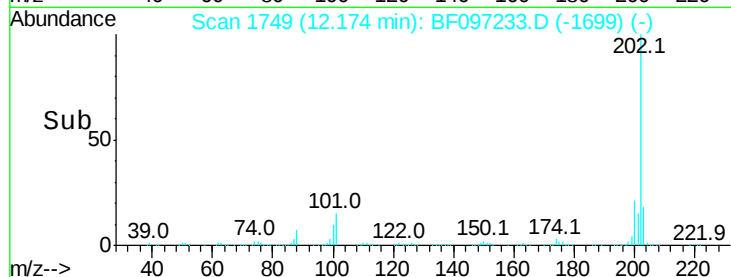
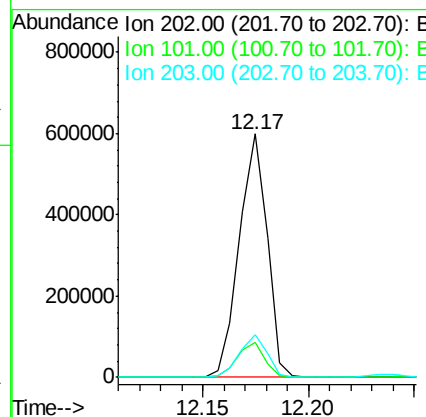
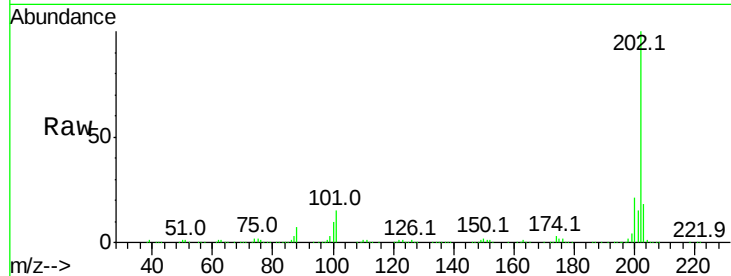
ClientSampleId :

VNJ-227-230-235DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	546130		
101	14.5	0.0	33.2	
203	17.6	0.0	38.1	

Manual Integrations
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8/2/2017 7:15:18 PM



#75

Chrysene-d12

Concen: 20.000 ng

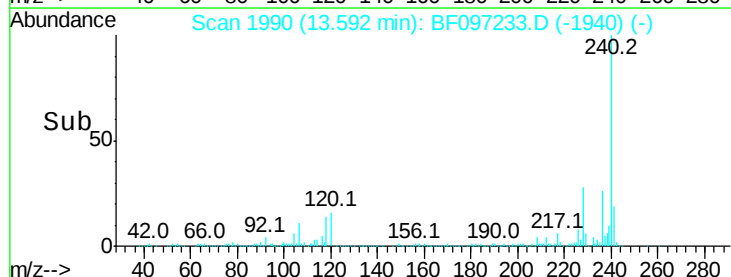
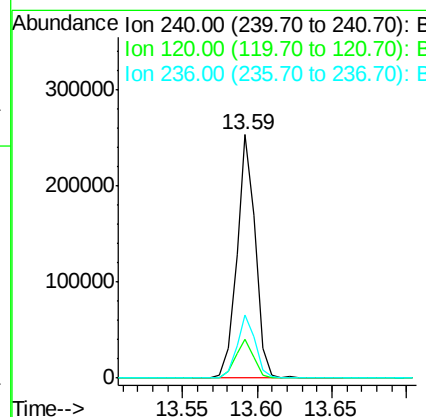
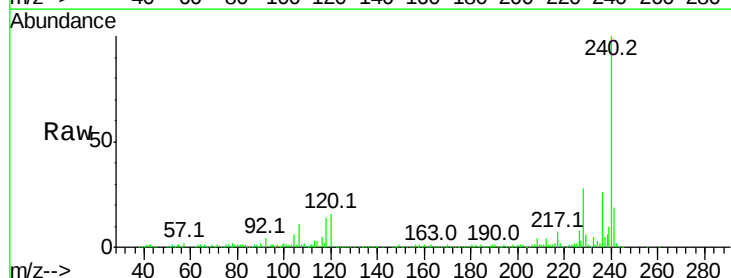
RT: 13.59 min Scan# 1990

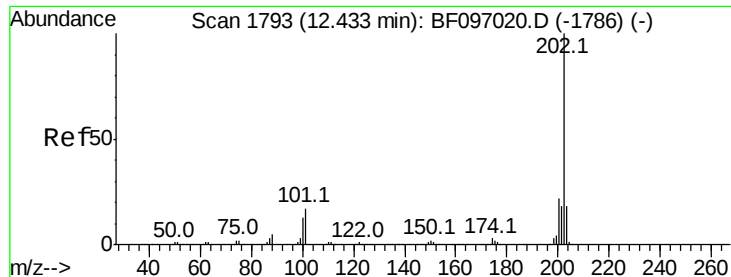
Delta R.T. -0.01 min

Lab File: BF097233.D

Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	220841		
120	16.2	5.8	8.8#	
236	25.8	20.5	30.7	





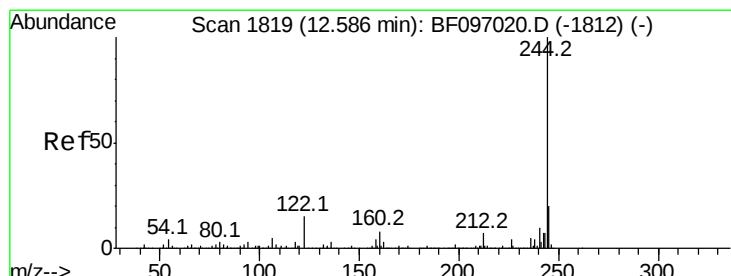
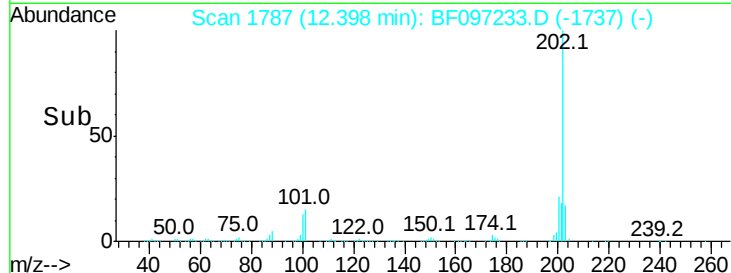
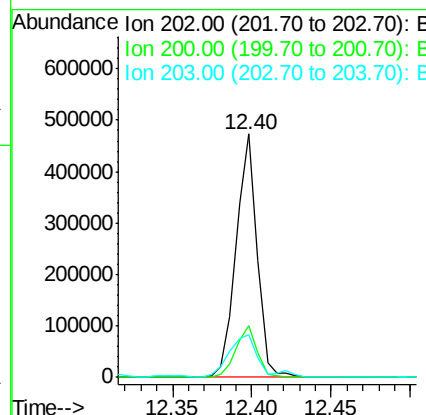
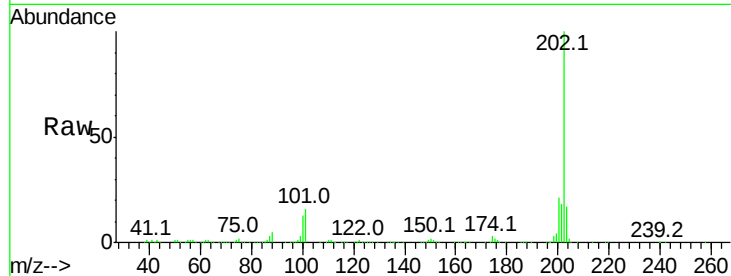
#77
Pvrene
Concen: 23.998 ng
RT: 12.40 min Scan# 1787
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion:202	Resp:	433871
Ion Ratio	Lower	Upper
202 100		
200 21.3	17.6	26.4
203 17.5	14.4	21.6

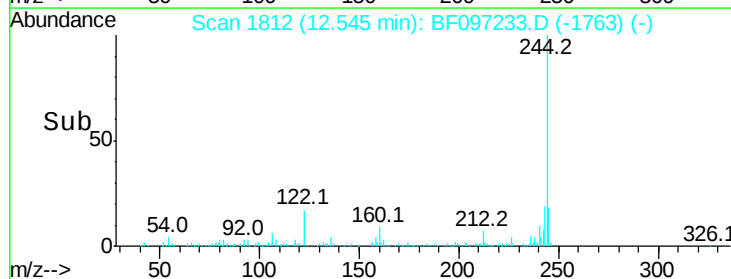
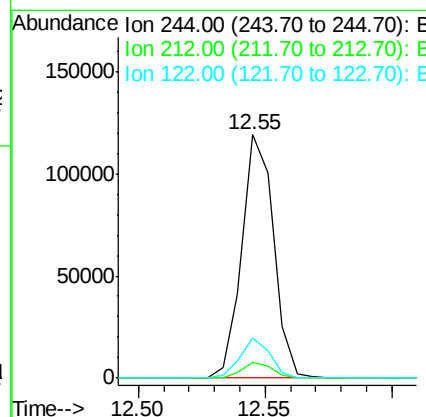
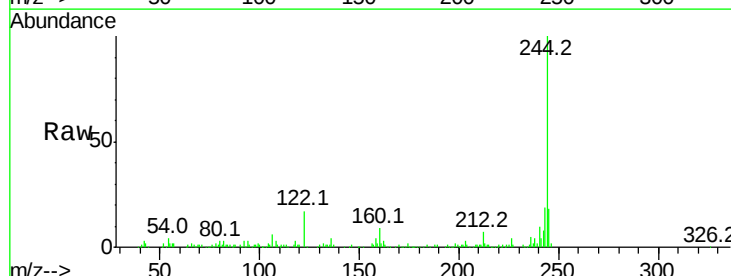
Manual Integrations
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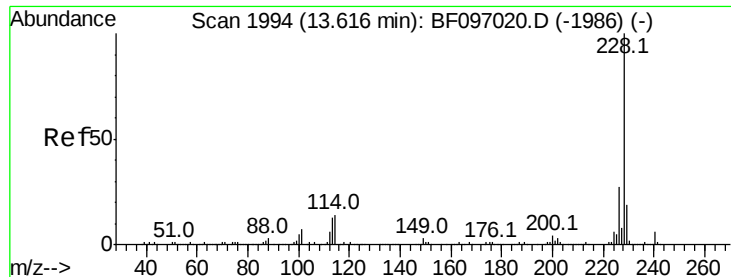
Sohil
8/2/2017 7:15:18 PM



#78
Terphenyl-d14
Concen: 9.565 ng
RT: 12.55 min Scan# 1812
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion:244	Resp:	103600
Ion Ratio	Lower	Upper
244 100		
212 6.6	6.0	9.0
122 16.6	10.3	15.5#





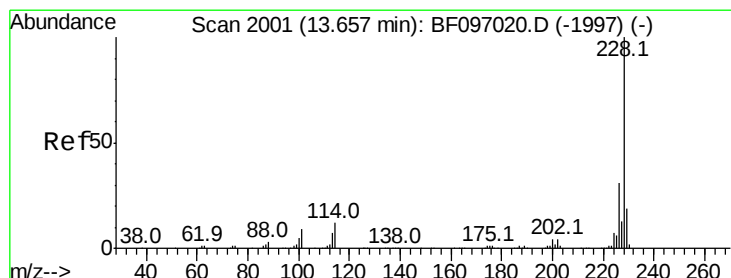
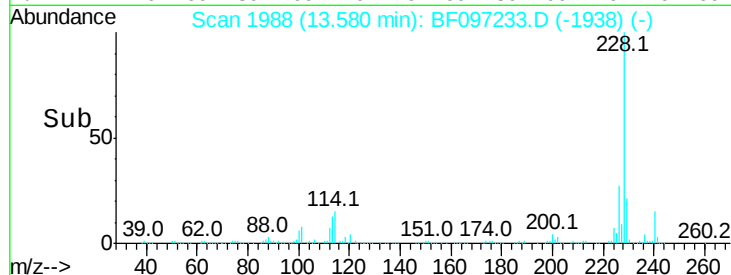
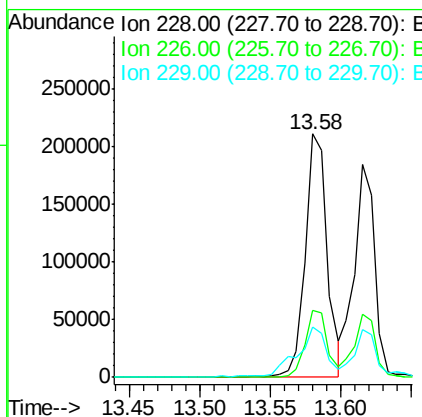
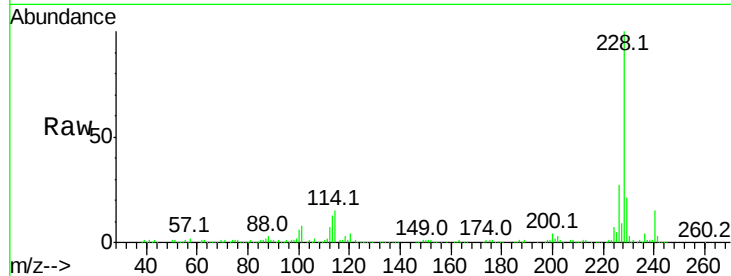
#80
Benzo(a)anthracene
Concen: 15.923 ng
RT: 13.58 min Scan# 1988
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion:	228	Resp:	227532
Ion Ratio	Lower	Upper	
228	100		
226	27.3	22.6	33.8
229	20.9	16.3	24.5

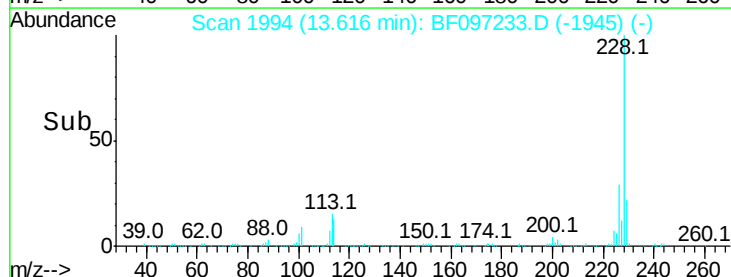
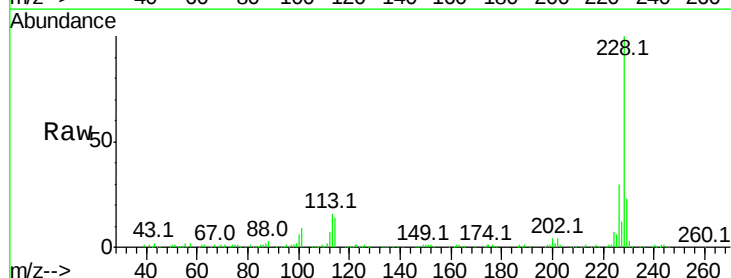
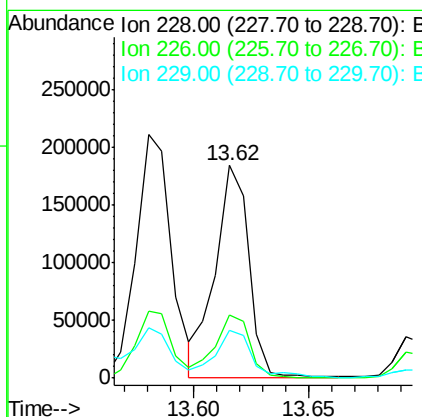
Manual Integrations
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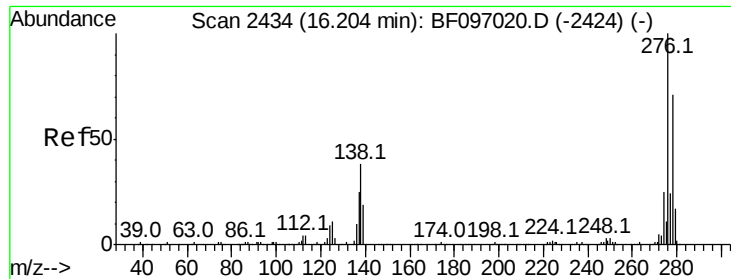
Sohil
8/2/2017 7:15:18 PM



#82
Chrysene
Concen: 13.394 ng
RT: 13.62 min Scan# 1994
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion:	228	Resp:	186889
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.9	37.3
229	22.7	15.8	23.6





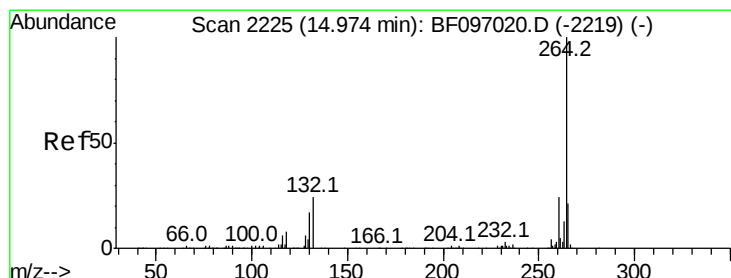
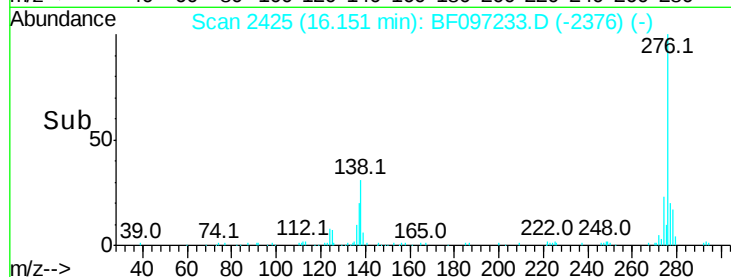
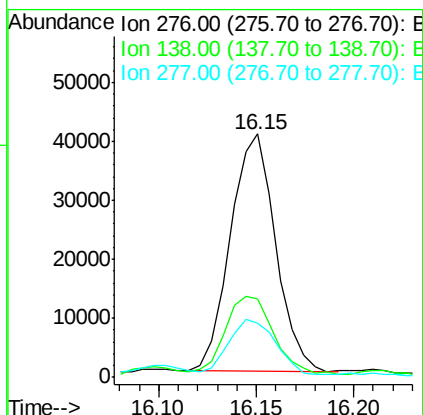
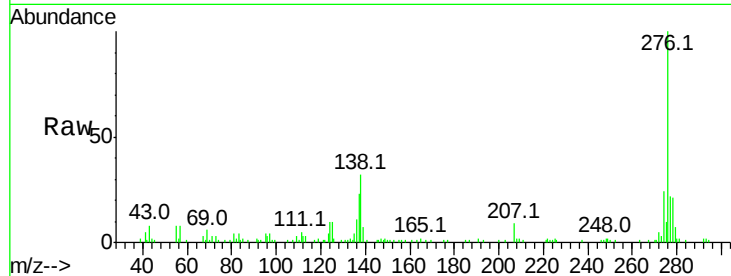
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.390 ng
RT: 16.15 min Scan# 2425
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	36.7	27.8	41.6
277	24.2	20.2	30.4

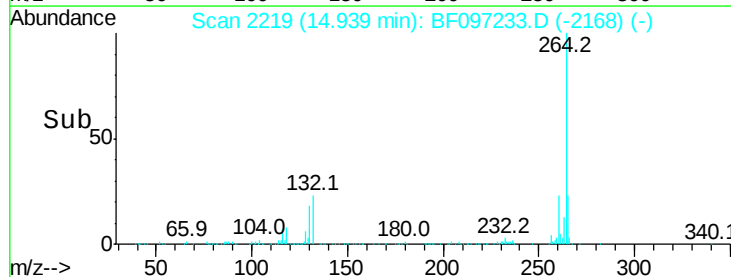
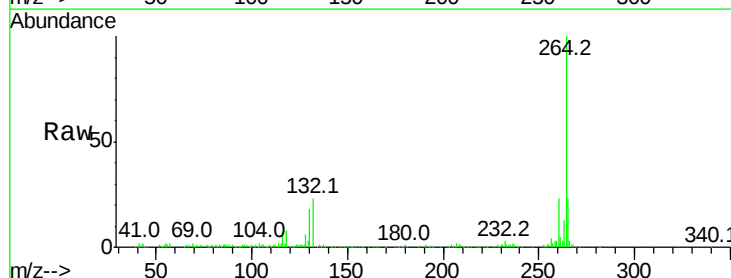
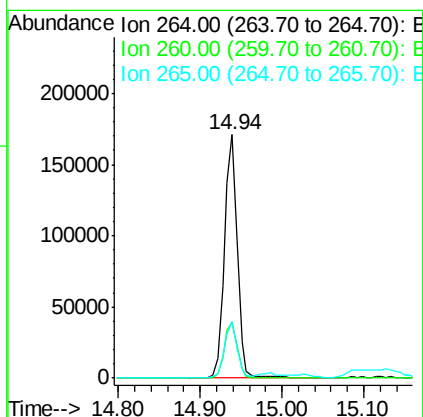
Manual Integrations
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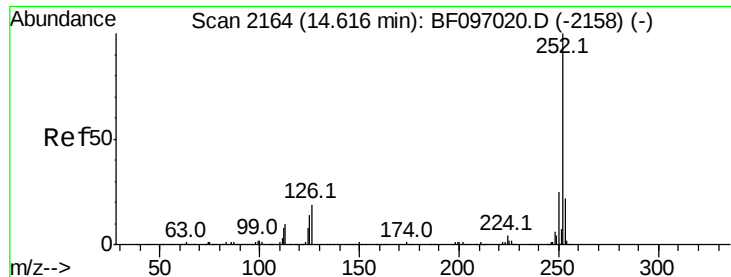
Sohil
8/2/2017 7:15:18 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.94 min Scan# 2219
Delta R.T. 0.00 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	23.3	17.2	25.8





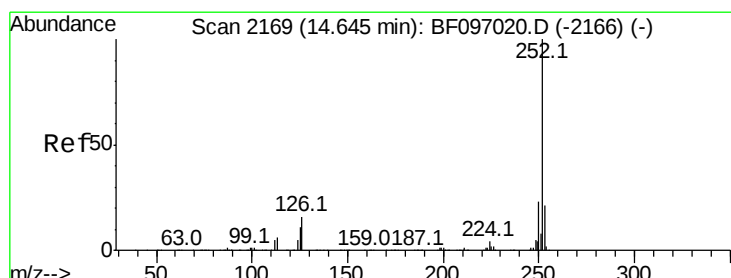
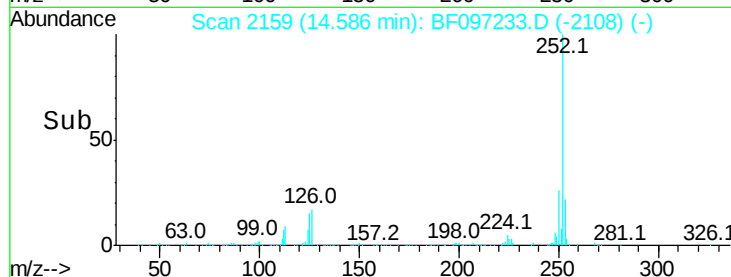
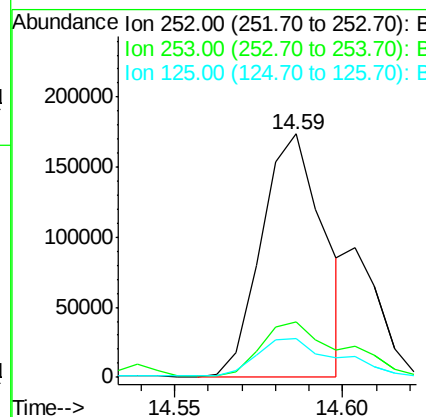
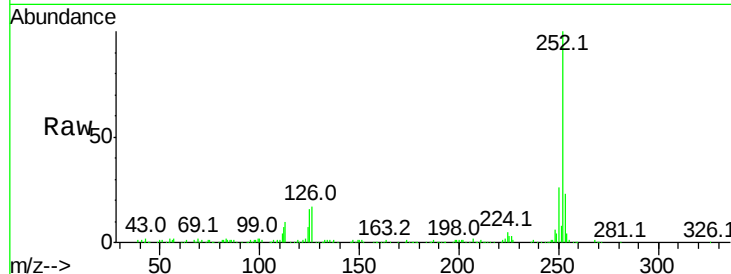
#87
Benzo(b)fluoranthene
Concen: 19.792 ng m
RT: 14.59 min Scan# 2159
Delta R.T. 0.00 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	15.9	9.8	14.8

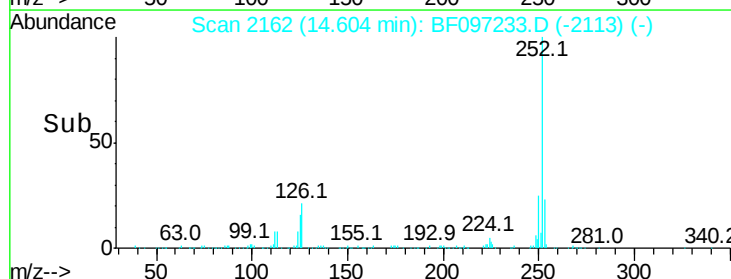
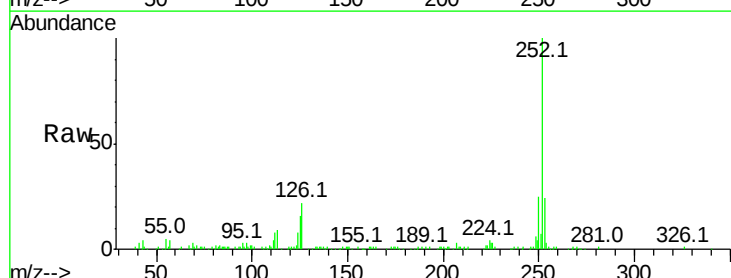
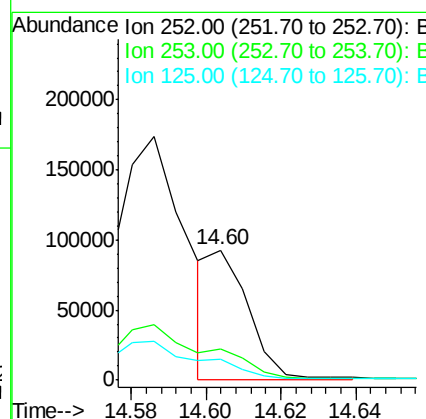
Manual Integrations
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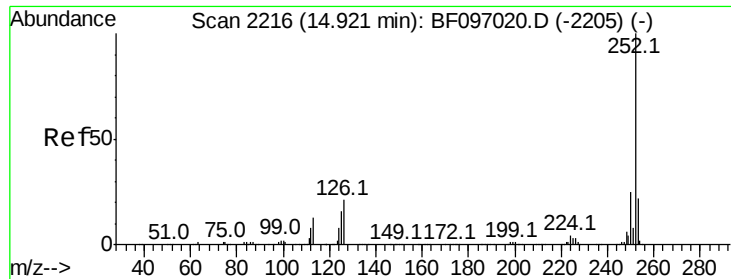
Sohil
8/2/2017 7:15:18 PM



#88
Benzo(k)fluoranthene
Concen: 6.162 ng m
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	16.2	13.1	19.7





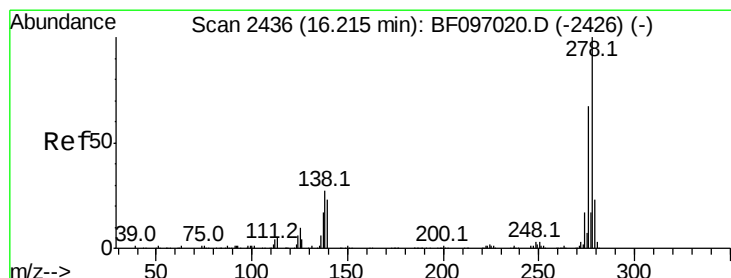
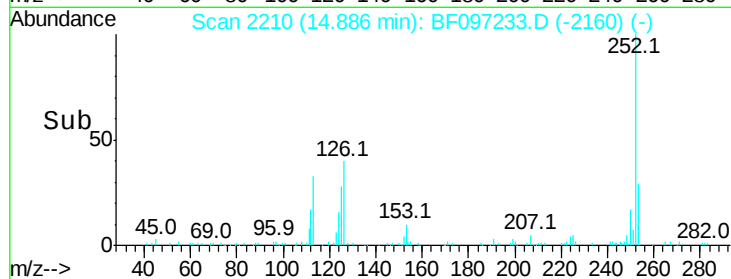
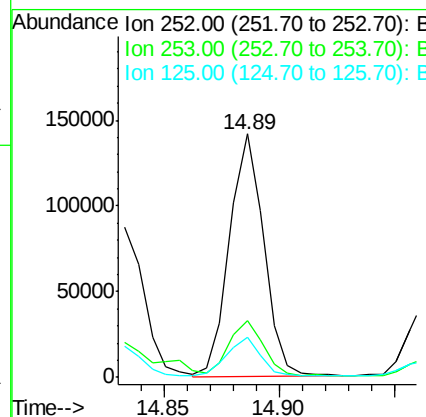
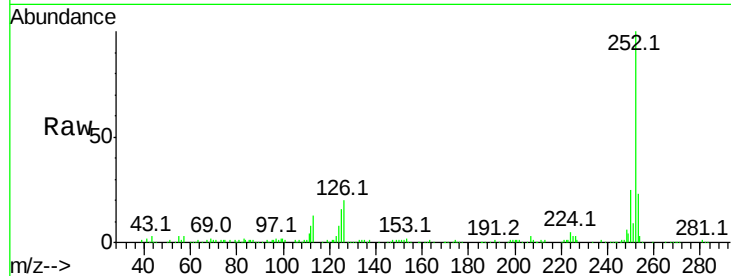
#89
Benzo(a)pyrene
Concen: 14.195 ng
RT: 14.89 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Instrument :
BNA_F
ClientSampleId :
VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	16.4	11.0	16.4

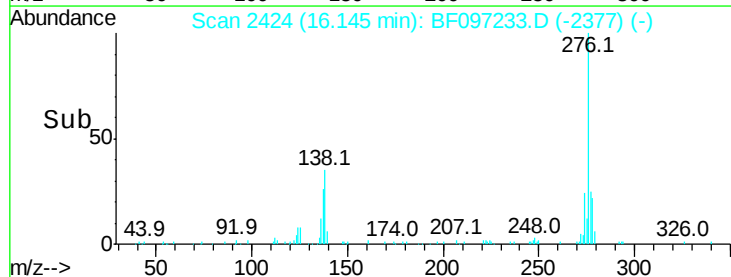
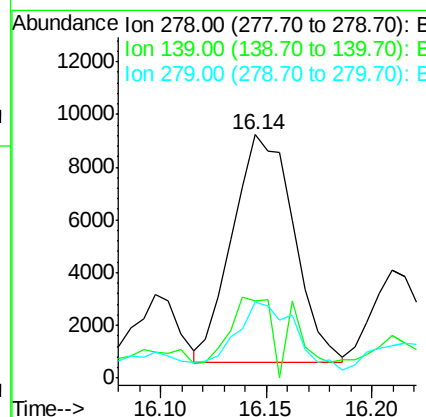
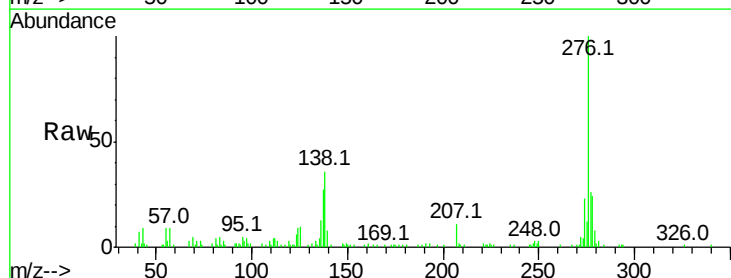
Manual Integrations
APPROVED

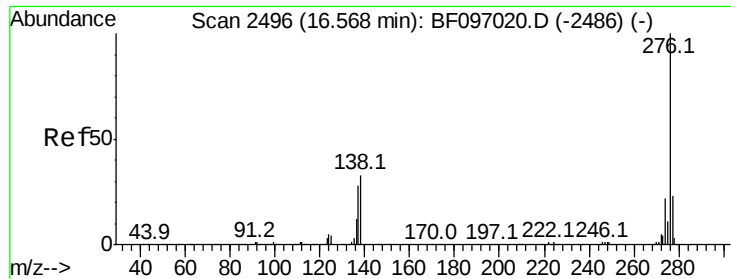
Sohil
8/2/2017 7:15:18 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.068 ng m
RT: 16.14 min Scan# 2424
Delta R.T. -0.02 min
Lab File: BF097233.D
Acq: 1 Aug 2017 15:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.6	16.6	24.8#
279	31.4	19.3	28.9#





#91
 Benzo(a,h,i)perylene
 Concen: 6.634 ng
 RT: 16.51 min Scan# 2486
 Delta R.T. -0.01 min
 Lab File: BF097233.D
 Acq: 1 Aug 2017 15:59

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-227-230-235DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	29.7	18.6	28.0#
138	33.1	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/2/2017 7:15:18 PM

